

## APPENDIX D

### MANDREL REQUIREMENTS

All gravity sanitary sewers, constructed using P.V.C. pipe, shall be tested using a Mandrel that will measure five percent (5%) deflection in the pipe. ASTM 3034, current, provides diameters for seven and one-half percent (7-1/2%) deflection. Five percent (5%) deflection requirements are listed below.

#### P.V.C. PIPE - SDR-35

Nominal Pipe Size (In.)	Average Inside Diameter (In.)	Base Inside Diameter (In.)	5% Deflection Mandrel (In.)
6	5.893	5.742	5.45
8	7.891	7.665	7.28
10	9.864	9.563	9.08
12	11.737	11.361	10.79
15	14.374	13.898	13.20

#### P.V.C. PIPE - SDR-26

Nominal Pipe Size (In.)	Average Inside Diameter (In.)	Base Inside Diameter (In.)	5% Deflection Mandrel (In.)
6	5.764	5.612	5.33
8	7.715	7.488	7.11
10	9.644	9.342	8.87
12	11.480	11.102	10.55
15	14.053	13.575	12.90

For P.V.C. pipe sizes larger than fifteen inch (15") diameter, specific requirements for the Mandrel will be established by the Department of Public Works.